IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.(Currently Amended) Method for coding a stream of input words using a channel code,

comprising the steps:

[[-]]   precoding the stream of input words into a stream of precoded input words; and

[[-]]   coding the stream of precoded input words into a stream of groups of N code words;

characterized in that ~~in a precoding,~~ a running digital sum of each group of N code words equals zero.

2.(Original) Method as claimed in claim 1, characterized in that N equals 2.

3.(Previously Presented) Method as claimed in claim 1,

characterized in that after the step of coding the stream of

precoded input words into a stream of groups of N code words the

method comprises the step of storing the groups of N code words

using a groove position modulation on a storage medium

4.(Previously Presented) Method as claimed in claim 1,

characterized in that coding the precoded stream of input words is

achieved using a parity preserving coder.

5.(Previously Presented) Method as claimed in claim 1,

characterized in that coding the precoded stream of input words is

achieved using a parity inverting coder.

6.(Original) Method as claimed in claim 4 characterized in

that the parity preserving coder is a 17PP coder

7.(Original) Method as claimed in claim 6, characterized in

that the stream of M input words is precoded using the following

table:

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In	Out
00	1010
01	0001
10	0111
11	0101
1010	00001000

8.(Original)   Method as claimed in claim 6, characterized in that the stream of M input words is precoded using the following table:

In		Out
00	->	10 10
10	->	00 01
11	->	01 11
01	->	01 01
11 11	->	00 00 10 00

9.(Previously Presented)   Method as claimed in claim 7,

characterized in that before the step of storing the groups of N

code words in using the groove position modulation on the storage

medium remaining DC components are removed using a high-pass filter

10.(Original)   Apparatus for storing data on a recording

medium comprising an encoder which arranged for coding the stream

of precoded input words into a stream of groups of N code words and

comprising a precoder for coding the. stream of input words into a

stream of precoded input words, characterised in that a running

digital sum of each group of N code words equals zero.

11.(Original)   Apparatus as claimed in claim 10, characterized

in that N equals 2.

12.(Previously Presented)   Apparatus_as claimed in claim 10,

characterized in that the apparatus is arranged for storing the

groups of N code words using a groove position modulation on a

storage medium

13. (Previously Presented) Apparatus as claimed in claim 10, characterized in that the encoder is a parity preserving coder.

14. (Previously Presented) Apparatus as claimed in claim 10, characterized in that the encoder is a parity inverting coder.

15. (Original) Apparatus as claimed in claim 13, characterized in that the parity preserving coder is a 17PP coder

16. (Original) Apparatus as claimed in claim 15, characterized in that the precoder is operative to precode the stream of M input words using the following table:

In	Out
00	1010
01	0001
10	0111
11	0101
1010	00001000

17.(Original)   Apparatus as claimed in claim 15, characterized in that the precoder is operative to precode the stream of M input words using the following table:

In		Out
00	->	10 10
10	->	00 01
11	->	01 11
01	->	01 01
11 11	->	00 00 10 00

18.(Previously Presented)   Apparatus as claimed in claim 16, characterized in that the apparatus is operative to remove remaining DC components using a high-pass filter before storing the groups of N code words using the groove position modulation on the storage medium.

19.(Original)   Record carrier comprising a stream of M input words stored as a stream of groups of N code words,

characterized in that a running digital sum of each group of N code words equals zero.

20.(Original) Record carrier as claimed in claim 19,

characterized in that N=2

21.(Previously Presented) Record carrier as claimed in claim 19,

characterized in that the groups of N code words are stored using a groove position modulation

22.(Previously Presented) Record carrier as claimed in claim 19,

characterized in that the stream of M input words is precoded using the following table:

In	Out
00	1010
01	0001
10	0111

11   0101

1010 00001000

23.(Previously Presented)   Record carrier as claimed in claim

19,

characterized in that the stream of M input words is precoded

using the following table:

In	Out
00	1010
10	0001
11	0111
01	0101
1111	00001000

24.(Original)   Method for decoding a stream of N code words

into a stream of M output words,

characterized in that the stream of M output words is

postcoded using the following table:

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In	Out
1010	00
0001	01
0111	10
0101	11
00001000	1010

25.(Original) Method for decoding a stream of N code words

into a stream of M output words,

characterized in that the stream of M output words is

postcoded using the following table:

In	Out
1010	00
0001	10
0111	11
0101	01
00001000	1111

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